

# API v1 Documentation

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## Overview

This document provides comprehensive API documentation for the Magnet e-commerce platform's v1 endpoints. The API is organized into three main sections: User, Business, and Dashboard routes.

**Base URL:** `/api/v1`

## Authentication

Most endpoints require authentication via JWT token in the Authorization header:

```
Authorization: Bearer <your-jwt-token>
```

## Role-Based Access Control

- **Customer:** Regular users who can browse products, place orders, and manage their profile
- **Business:** Business users who can manage their products, view their orders, and handle reviews
- **Admin/Employee:** Administrative users with full system access

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## User Routes (`/api/v1/user`)

Authentication (`/api/v1/user/auth`)

### Register User

- **POST** `/api/v1/user/auth/register`
- **Description:** Register a new customer account
- **Authentication:** None required
- **Body:**

```
{
  "firstname": "string",
  "lastname": "string",
  "email": "string",
  "phone": "string",
  "password": "string",
  "country": "string",
  "language": "string"
}
```

### Business Registration Request

- **POST** /api/v1/user/auth/business-request
- **Description:** Submit a business registration request
- **Authentication:** None required
- **Body:**

```
{
  "firstname": "string",
  "lastname": "string",
  "email": "string",
  "phone": "string",
  "password": "string",
  "businessName": "string",
  "businessType": "string",
  "businessDescription": "string",
  "country": "string",
  "language": "string"
}
```

## Login

- **POST** /api/v1/user/auth/login
- **Description:** Authenticate user with email/phone and password
- **Authentication:** None required
- **Body:**

```
{
  "identifier": "string (email or phone)",
  "password": "string"
}
```

## Send Email OTP

- **POST** /api/v1/user/auth/send-email-otp
- **Description:** Send OTP verification code to email
- **Authentication:** None required
- **Body:**

```
{
  "email": "string"
}
```

## Send Phone OTP

- **POST** /api/v1/user/auth/send-phone-otp

- **Description:** Send OTP verification code to phone
- **Authentication:** None required
- **Body:**

```
{  
  "phone": "string"  
}
```

### Confirm OTP

- **POST** /api/v1/user/auth/confirm-otp
- **Description:** Verify OTP code
- **Authentication:** None required
- **Body:**

```
{  
  "identifier": "string (email or phone)",  
  "otp": "string"  
}
```

### Login with OTP

- **POST** /api/v1/user/auth/login-with-otp
- **Description:** Login using OTP instead of password
- **Authentication:** None required
- **Body:**

```
{  
  "identifier": "string (email or phone)"  
}
```

### Confirm Login OTP

- **POST** /api/v1/user/auth/confirm-login-otp
- **Description:** Complete OTP login process
- **Authentication:** None required
- **Body:**

```
{  
  "identifier": "string (email or phone)",  
  "otp": "string"  
}
```

## Change Password

- **POST** `/api/v1/user/auth/password`
- **Description:** Change user password
- **Authentication:** Required (Customer)
- **Body:**

```
{
  "currentPassword": "string",
  "newPassword": "string"
}
```

## Profile (`/api/v1/user/profile`)

### Get Profile

- **GET** `/api/v1/user/profile`
- **Description:** Get current customer profile
- **Authentication:** Required (Customer)

### Update Profile

- **PUT** `/api/v1/user/profile`
- **Description:** Update current customer profile
- **Authentication:** Required (Customer)
- **Body:**

```
{
  "firstname": "string",
  "lastname": "string",
  "email": "string",
  "phone": "string",
  "country": "string",
  "language": "string"
}
```

## Products (`/api/v1/user/products`)

### Get All Products

- **GET** `/api/v1/user/products`
- **Description:** Get all approved and allowed products (protected public endpoint)
- **Authentication:** Required
- **Query Parameters:**
  - `page` (optional): Page number
  - `limit` (optional): Items per page

- **category** (optional): Filter by category
- **search** (optional): Search term

### Get Product by ID

- **GET** `/api/v1/user/products/:id`
- **Description:** Get specific product details
- **Authentication:** Required

### Orders (`/api/v1/user/orders`)

#### Get All Orders

- **GET** `/api/v1/user/orders`
- **Description:** Get all customer's orders
- **Authentication:** Required (Customer)
- **Query Parameters:**
  - **page** (optional): Page number
  - **limit** (optional): Items per page
  - **status** (optional): Filter by order status

#### Get Order by ID

- **GET** `/api/v1/user/orders/:id`
- **Description:** Get specific customer's order
- **Authentication:** Required (Customer)

#### Create Order

- **POST** `/api/v1/user/orders/order`
- **Description:** Create a new order
- **Authentication:** Required (Customer)
- **Body:**

```
{
  "items": [
    {
      "productId": "string",
      "quantity": "number",
      "price": "number"
    }
  ],
  "shippingAddress": "string",
  "paymentMethod": "string",
  "notes": "string"
}
```

#### Update Order

- **PUT** `/api/v1/user/orders/order/:id`
- **Description:** Update existing order
- **Authentication:** Required (Customer)
- **Body:**

```
{
  "items": "array",
  "shippingAddress": "string",
  "paymentMethod": "string",
  "notes": "string"
}
```

### Cancel Order

- **PUT** `/api/v1/user/orders/order/:id/cancel`
- **Description:** Cancel order before shipment
- **Authentication:** Required (Customer)

### Addresses (`/api/v1/user/addresses`)

#### Get All Addresses

- **GET** `/api/v1/user/addresses`
- **Description:** Get all customer's addresses
- **Authentication:** Required (Customer)

#### Get Address by ID

- **GET** `/api/v1/user/addresses/:id`
- **Description:** Get specific customer's address
- **Authentication:** Required (Customer)

#### Create Address

- **POST** `/api/v1/user/addresses/address`
- **Description:** Create a new address
- **Authentication:** Required (Customer)
- **Body:**

```
{
  "street": "string",
  "city": "string",
  "state": "string",
  "zipCode": "string",
  "country": "string",
  "isDefault": "boolean"
}
```

## Update Address

- **PUT** `/api/v1/user/addresses/address/:id`
- **Description:** Update existing address
- **Authentication:** Required (Customer)
- **Body:**

```
{
  "street": "string",
  "city": "string",
  "state": "string",
  "zipCode": "string",
  "country": "string",
  "isDefault": "boolean"
}
```

## Delete Address

- **DELETE** `/api/v1/user/addresses/address/:id`
- **Description:** Delete existing address
- **Authentication:** Required (Customer)

## Wishlists (`/api/v1/user/wishlists`)

### Get Wishlist

- **GET** `/api/v1/user/wishlists`
- **Description:** Get customer's wishlist
- **Authentication:** Required (Customer)

### Toggle Wishlist Item

- **PUT** `/api/v1/user/wishlist`
- **Description:** Add product if not exists, remove if exists
- **Authentication:** Required (Customer)
- **Body:**

```
{
  "productId": "string"
}
```

---

## Business Routes (`/api/v1/business`)

### Products (`/api/v1/business/products`)

## Get Business Products

- **GET** `/api/v1/business/products`
- **Description:** Get all products belonging to the business user
- **Authentication:** Required (Business)
- **Query Parameters:**
  - `page` (optional): Page number
  - `limit` (optional): Items per page
  - `status` (optional): Filter by product status

## Get Product by ID

- **GET** `/api/v1/business/products/:id`
- **Description:** Get specific product details
- **Authentication:** Required (Business)

## Create Product

- **POST** `/api/v1/business/products/product`
- **Description:** Create a new product
- **Authentication:** Required (Business)
- **Body:**

```
{
  "name": "string",
  "description": "string",
  "price": "number",
  "categoryId": "string",
  "images": "array",
  "stock": "number",
  "isAllowed": "boolean"
}
```

## Update Product

- **PUT** `/api/v1/business/products/product/:id`
- **Description:** Update existing product
- **Authentication:** Required (Business)
- **Body:**

```
{
  "name": "string",
  "description": "string",
  "price": "number",
  "categoryId": "string",
  "images": "array",
  "stock": "number",
}
```

```
"isAllowed": "boolean"  
}
```

### Delete Product

- **DELETE** `/api/v1/business/products/product/:id`
- **Description:** Delete product
- **Authentication:** Required (Business)

### Toggle Product

- **PUT** `/api/v1/business/products/product/:id/toggle`
- **Description:** Toggle allow/disallow product
- **Authentication:** Required (Business)

### Orders (`/api/v1/business/orders`)

#### Get Business Orders

- **GET** `/api/v1/business/orders`
- **Description:** Get orders containing business user's products only
- **Authentication:** Required (Business)
- **Query Parameters:**
  - `page` (optional): Page number
  - `limit` (optional): Items per page
  - `status` (optional): Filter by order status

#### Get Order by ID

- **GET** `/api/v1/business/orders/:id`
- **Description:** Get specific order containing business products
- **Authentication:** Required (Business)

### Reviews (`/api/v1/business/reviews`)

#### Get Business Reviews

- **GET** `/api/v1/business/reviews`
- **Description:** Get all reviews for business user's products
- **Authentication:** Required (Business)
- **Query Parameters:**
  - `page` (optional): Page number
  - `limit` (optional): Items per page
  - `productId` (optional): Filter by product

#### Get Review by ID

- **GET** `/api/v1/business/reviews/:id`

- **Description:** Get specific review details
- **Authentication:** Required (Business)

Profile (</api/v1/business/profile>)

### Get Business Profile

- **GET** </api/v1/business/profile>
- **Description:** Get business user profile
- **Authentication:** Required (Business)

### Update Business Profile

- **PUT** </api/v1/business/profile>
- **Description:** Update business user profile
- **Authentication:** Required (Business)
- **Body:**

```
{
  "firstname": "string",
  "lastname": "string",
  "email": "string",
  "phone": "string",
  "businessName": "string",
  "businessType": "string",
  "businessDescription": "string",
  "country": "string",
  "language": "string"
}
```

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## Dashboard Routes (</api/v1/dashboard>)

*All dashboard routes require Admin or Employee authentication*

Users (</api/v1/dashboard/users>)

### Get All Users

- **GET** </api/v1/dashboard/users>
- **Description:** Get all users with pagination and filtering
- **Authentication:** Required (Admin/Employee)
- **Query Parameters:**
  - **page** (optional): Page number
  - **limit** (optional): Items per page
  - **role** (optional): Filter by user role
  - **search** (optional): Search term
  - **isAllowed** (optional): Filter by allowed status

## Get User by ID

- **GET** `/api/v1/dashboard/users/:id`
- **Description:** Get specific user details
- **Authentication:** Required (Admin/Employee)

## Create User

- **POST** `/api/v1/dashboard/users/user`
- **Description:** Create a new user
- **Authentication:** Required (Admin/Employee)
- **Body:**

```
{
  "firstname": "string",
  "lastname": "string",
  "email": "string",
  "phone": "string",
  "password": "string",
  "role": "string",
  "country": "string",
  "language": "string",
  "crNumber": "string (required if role is business)",
  "vatNumber": "string (required if role is business)",
  "companyName": "string (required if role is business)",
  "companyType": "string (required if role is business)",
  "city": "string (required if role is business)",
  "district": "string (required if role is business)",
  "streetName": "string (required if role is business)",
  "accessPages": {
    "dashboard": "boolean (for admin/employee)",
    "analytics": "boolean (for admin/employee)",
    "users": "boolean (for admin/employee)",
    "products": "boolean (for admin/employee)",
    "orders": "boolean (for admin/employee)",
    "reviews": "boolean (for admin/employee)",
    "wishlists": "boolean (for admin/employee)",
    "categories": "boolean (for admin/employee)",
    "addresses": "boolean (for admin/employee)"
  }
}
```

## Update User

- **PUT** `/api/v1/dashboard/users/user/:id`
- **Description:** Update existing user (supports all fields based on user role)
- **Authentication:** Required (Admin/Employee)
- **Body:**

```
{
  // Basic user fields
  "firstname": "string",
  "lastname": "string",
  "email": "string",
  "phone": "string",
  "role": "string",
  "country": "string",
  "language": "string",
  "imageUrl": "string",
  "isAllowed": "boolean",
  "isEmailVerified": "boolean",
  "isPhoneVerified": "boolean",

  // Business specific fields (for business users)
  "crNumber": "string",
  "vatNumber": "string",
  "companyName": "string",
  "companyType": "string",
  "city": "string",
  "district": "string",
  "streetName": "string",
  "approvalStatus": "string (pending/approved/rejected)",
  "rejectionReason": "string",

  // Access pages (for admin/employee users)
  "accessPages": {
    "dashboard": "boolean",
    "analytics": "boolean",
    "users": "boolean",
    "products": "boolean",
    "orders": "boolean",
    "reviews": "boolean",
    "wishlists": "boolean",
    "categories": "boolean",
    "addresses": "boolean"
  },

  // Disallow fields (for customer users)
  "disallowReason": "string"
}
```

## Toggle User

- **PUT** `/api/v1/dashboard/users/user/:id/toggle`
- **Description:** Toggle user allow/disallow status
- **Authentication:** Required (Admin/Employee)
- **Body** (when disallowing user):

```
{
  "disallowReason": "string (required when disallowing user)"
}
```

- **Body** (when allowing user):

```
{}
```

## Delete User

- **DELETE** `/api/v1/dashboard/users/user/:id`
- **Description:** Delete user
- **Authentication:** Required (Admin/Employee)

## Products (`/api/v1/dashboard/products`)

### Get All Products

- **GET** `/api/v1/dashboard/products`
- **Description:** Get all products with pagination and filtering
- **Authentication:** Required (Admin/Employee)
- **Query Parameters:**
  - `page` (optional): Page number
  - `limit` (optional): Items per page
  - `category` (optional): Filter by category
  - `businessId` (optional): Filter by business user
  - `status` (optional): Filter by approval status

### Get Product by ID

- **GET** `/api/v1/dashboard/products/:id`
- **Description:** Get specific product details
- **Authentication:** Required (Admin/Employee)

### Create Product

- **POST** `/api/v1/dashboard/products/product`
- **Description:** Create product for specific business user
- **Authentication:** Required (Admin/Employee)
- **Body:**

```
{
  "name": "string",
  "description": "string",
  "price": "number",
}
```

```
"categoryId": "string",
"businessId": "string",
"images": "array",
"stock": "number"
}
```

## Update Product

- **PUT** `/api/v1/dashboard/products/product/:id`
- **Description:** Update product for specific business user
- **Authentication:** Required (Admin/Employee)
- **Body:**

```
{
  "name": "string",
  "description": "string",
  "price": "number",
  "categoryId": "string",
  "images": "array",
  "stock": "number"
}
```

## Delete Product

- **DELETE** `/api/v1/dashboard/products/product/:id`
- **Description:** Delete product
- **Authentication:** Required (Admin/Employee)

## Approve Product

- **PUT** `/api/v1/dashboard/products/product/:id/approve`
- **Description:** Approve product
- **Authentication:** Required (Admin/Employee)

## Decline Product

- **PUT** `/api/v1/dashboard/products/product/:id/decline`
- **Description:** Decline product
- **Authentication:** Required (Admin/Employee)

## Toggle Product

- **PUT** `/api/v1/dashboard/products/product/:id/toggle`
- **Description:** Toggle allow/disallow product
- **Authentication:** Required (Admin/Employee)

## Get Product Reviews

- **GET** `/api/v1/dashboard/products/:id/reviews`
- **Description:** Get all reviews for specific product
- **Authentication:** Required (Admin/Employee)

### Get Product Orders

- **GET** `/api/v1/dashboard/products/:id/orders`
- **Description:** Get all orders containing specific product
- **Authentication:** Required (Admin/Employee)

### Get Product Review by ID

- **GET** `/api/v1/dashboard/products/:productId/reviews/:reviewId`
- **Description:** Get specific product review
- **Authentication:** Required (Admin/Employee)

### Get Product Order by ID

- **GET** `/api/v1/dashboard/products/:productId/orders/:orderId`
- **Description:** Get specific product order
- **Authentication:** Required (Admin/Employee)

## Categories (`/api/v1/dashboard/categories`)

### Get All Categories

- **GET** `/api/v1/dashboard/categories`
- **Description:** Get all categories
- **Authentication:** Required (Admin/Employee)

### Get Category by ID

- **GET** `/api/v1/dashboard/categories/:id`
- **Description:** Get specific category details
- **Authentication:** Required (Admin/Employee)

### Create Category

- **POST** `/api/v1/dashboard/categories/category`
- **Description:** Create a new category
- **Authentication:** Required (Admin/Employee)
- **Body:**

```
{
  "name": "string",
  "description": "string",
  "isAllowed": "boolean"
}
```

## Update Category

- **PUT** `/api/v1/dashboard/categories/category/:id`
- **Description:** Update existing category
- **Authentication:** Required (Admin/Employee)
- **Body:**

```
{
  "name": "string",
  "description": "string",
  "isAllowed": "boolean"
}
```

## Delete Category

- **DELETE** `/api/v1/dashboard/categories/category/:id`
- **Description:** Delete category
- **Authentication:** Required (Admin/Employee)

## Toggle Category

- **PUT** `/api/v1/dashboard/categories/category/:id/toggle`
- **Description:** Toggle allow/disallow category
- **Authentication:** Required (Admin/Employee)

## Orders (`/api/v1/dashboard/orders`)

### Get All Orders

- **GET** `/api/v1/dashboard/orders`
- **Description:** Get all orders with pagination and filtering
- **Authentication:** Required (Admin/Employee)
- **Query Parameters:**
  - `page` (optional): Page number
  - `limit` (optional): Items per page
  - `status` (optional): Filter by order status
  - `userId` (optional): Filter by user

### Get Order by ID

- **GET** `/api/v1/dashboard/orders/:id`
- **Description:** Get specific order details
- **Authentication:** Required (Admin/Employee)

### Create Order

- **POST** `/api/v1/dashboard/orders/order`
- **Description:** Create order for specific user
- **Authentication:** Required (Admin/Employee)
- **Body:**

```
{
  "userId": "string",
  "items": [
    {
      "productId": "string",
      "quantity": "number",
      "price": "number"
    }
  ],
  "shippingAddress": "string",
  "paymentMethod": "string"
}
```

### Update Order

- **PUT** `/api/v1/dashboard/orders/order/:id`
- **Description:** Update existing order
- **Authentication:** Required (Admin/Employee)
- **Body:**

```
{
  "items": "array",
  "shippingAddress": "string",
  "paymentMethod": "string",
  "status": "string"
}
```

### Delete Order

- **DELETE** `/api/v1/dashboard/orders/order/:id`
- **Description:** Delete order
- **Authentication:** Required (Admin/Employee)

## Reviews (`/api/v1/dashboard/reviews`)

### Get All Reviews

- **GET** `/api/v1/dashboard/reviews`
- **Description:** Get all reviews with pagination and filtering
- **Authentication:** Required (Admin/Employee)
- **Query Parameters:**

- **page** (optional): Page number
- **limit** (optional): Items per page
- **productId** (optional): Filter by product
- **userId** (optional): Filter by user

### Get Review by ID

- **GET** `/api/v1/dashboard/reviews/:id`
- **Description:** Get specific review details
- **Authentication:** Required (Admin/Employee)

### Reject Review

- **PUT** `/api/v1/dashboard/reviews/review/:id`
- **Description:** Reject review
- **Authentication:** Required (Admin/Employee)

### Delete Review

- **DELETE** `/api/v1/dashboard/reviews/review/:id`
- **Description:** Delete review
- **Authentication:** Required (Admin/Employee)

## Addresses (`/api/v1/dashboard/addresses`)

### Get All Addresses

- **GET** `/api/v1/dashboard/addresses`
- **Description:** Get all addresses with pagination and filtering
- **Authentication:** Required (Admin/Employee)
- **Query Parameters:**
  - **page** (optional): Page number
  - **limit** (optional): Items per page
  - **userId** (optional): Filter by user

### Get Address by ID

- **GET** `/api/v1/dashboard/addresses/:id`
- **Description:** Get specific address details
- **Authentication:** Required (Admin/Employee)

### Create Address

- **POST** `/api/v1/dashboard/addresses/address`
- **Description:** Create address for specific user
- **Authentication:** Required (Admin/Employee)
- **Body:**

```
{
  "userId": "string",
  "street": "string",
  "city": "string",
  "state": "string",
  "zipCode": "string",
  "country": "string",
  "isDefault": "boolean"
}
```

## Update Address

- **PUT** `/api/v1/dashboard/addresses/address/:id`
- **Description:** Update existing address
- **Authentication:** Required (Admin/Employee)
- **Body:**

```
{
  "street": "string",
  "city": "string",
  "state": "string",
  "zipCode": "string",
  "country": "string",
  "isDefault": "boolean"
}
```

## Delete Address

- **DELETE** `/api/v1/dashboard/addresses/address/:id`
- **Description:** Delete address
- **Authentication:** Required (Admin/Employee)

## Wishlists (`/api/v1/dashboard/wishlists`)

### Get All Wishlists

- **GET** `/api/v1/dashboard/wishlists`
- **Description:** Get all wishlists with pagination and filtering
- **Authentication:** Required (Admin/Employee)
- **Query Parameters:**
  - `page` (optional): Page number
  - `limit` (optional): Items per page
  - `userId` (optional): Filter by user

### Get Wishlist by ID

- **GET** `/api/v1/dashboard/wishlists/:id`
- **Description:** Get specific wishlist details
- **Authentication:** Required (Admin/Employee)

### Create Wishlist

- **POST** `/api/v1/dashboard/wishlists/wishlist`
- **Description:** Create wishlist for specific user
- **Authentication:** Required (Admin/Employee)
- **Body:**

```
{
  "userId": "string",
  "productId": "string"
}
```

### Update Wishlist

- **PUT** `/api/v1/dashboard/wishlists/wishlist/:id`
- **Description:** Update existing wishlist
- **Authentication:** Required (Admin/Employee)
- **Body:**

```
{
  "productId": "string"
}
```

### Delete Wishlist

- **DELETE** `/api/v1/dashboard/wishlists/wishlist/:id`
- **Description:** Delete wishlist
- **Authentication:** Required (Admin/Employee)

## Business Management (`/api/v1/dashboard/business`)

### Get All Business Requests

- **GET** `/api/v1/dashboard/business/businesses`
- **Description:** Get all business registration requests
- **Authentication:** Required (Admin/Employee)
- **Query Parameters:**
  - `page` (optional): Page number
  - `limit` (optional): Items per page
  - `status` (optional): Filter by approval status

## Get Business Request by ID

- **GET** `/api/v1/dashboard/business/businesses/:id`
- **Description:** Get specific business request details
- **Authentication:** Required (Admin/Employee)

## Approve Business Request

- **PUT** `/api/v1/dashboard/business/approve`
- **Description:** Approve business registration request
- **Authentication:** Required (Admin/Employee)
- **Body:**

```
{
  "businessId": "string"
}
```

## Decline Business Request

- **PUT** `/api/v1/dashboard/business/decline`
- **Description:** Decline business registration request
- **Authentication:** Required (Admin/Employee)
- **Body:**

```
{
  "businessId": "string",
  "reason": "string"
}
```

## Profile (`/api/v1/dashboard/profile`)

### Get Admin Profile

- **GET** `/api/v1/dashboard/profile`
- **Description:** Get current admin/employee profile
- **Authentication:** Required (Admin/Employee)

### Update Admin Profile

- **PUT** `/api/v1/dashboard/profile`
- **Description:** Update current admin/employee profile
- **Authentication:** Required (Admin/Employee)
- **Body:**

```
{
  "firstname": "string",
  "lastname": "string",
  "email": "string",
  "phone": "string",
  "country": "string",
  "language": "string"
}
```

## Statistics (/api/v1/dashboard/stats)

### Get User Statistics

- **GET** /api/v1/dashboard/stats/users
- **Description:** Get comprehensive user statistics
- **Authentication:** Required (Admin/Employee)
- **Response:**

```
{
  "totalUsers": "number",
  "customers": "number",
  "businesses": "number",
  "admins": "number",
  "employees": "number",
  "allowedUsers": "number",
  "disallowedUsers": "number",
  "recentUsers": "number"
}
```

### Get Order Statistics

- **GET** /api/v1/dashboard/stats/orders
- **Description:** Get comprehensive order statistics and revenue data
- **Authentication:** Required (Admin/Employee)
- **Response:**

```
{
  "totalOrders": "number",
  "pendingOrders": "number",
  "confirmedOrders": "number",
  "processingOrders": "number",
  "shippedOrders": "number",
  "deliveredOrders": "number",
  "cancelledOrders": "number",
  "refundedOrders": "number",
  "totalRevenue": "number",
}
```

```
"recentOrders": "number"
}
```

### Get Product Statistics

- **GET** `/api/v1/dashboard/stats/products`
- **Description:** Get comprehensive product statistics and category breakdown
- **Authentication:** Required (Admin/Employee)
- **Response:**

```
{
  "totalProducts": "number",
  "approvedProducts": "number",
  "pendingProducts": "number",
  "declinedProducts": "number",
  "averagePrice": "number",
  "productsByCategory": "array",
  "recentProducts": "number"
}
```

### Get Review Statistics

- **GET** `/api/v1/dashboard/stats/reviews`
- **Description:** Get comprehensive review statistics and rating breakdown
- **Authentication:** Required (Admin/Employee)
- **Response:**

```
{
  "totalReviews": "number",
  "approvedReviews": "number",
  "pendingReviews": "number",
  "rejectedReviews": "number",
  "averageRating": "number",
  "reviewsByRating": "array",
  "recentReviews": "number"
}
```

### Get General Statistics

- **GET** `/api/v1/dashboard/stats/general`
- **Description:** Get overall platform statistics and recent activity
- **Authentication:** Required (Admin/Employee)
- **Response:**

```
{
  "overview": {
    "totalUsers": "number",
    "totalProducts": "number",
    "totalOrders": "number",
    "totalReviews": "number",
    "totalWishlists": "number",
    "totalAddresses": "number",
    "totalRevenue": "number"
  },
  "recentActivity": {
    "recentUsers": "number",
    "recentProducts": "number",
    "recentOrders": "number",
    "recentReviews": "number"
  }
}
```

---

## Response Format

All API responses follow a consistent format:

### Success Response

```
{
  "status": "success",
  "message": "Operation completed successfully",
  "data": {
    // Response data here
  },
  "pagination": {
    // Pagination info (when applicable)
    "currentPage": 1,
    "totalPages": 10,
    "totalItems": 100,
    "limit": 10
  }
}
```

### User Response Format

User objects in responses include the following fields:

#### All Users

```
{
  "id": "string",
```

```
"firstname": "string",
"lastname": "string",
"email": "string",
"phone": "string",
"role": "string",
"country": "string",
"language": "string",
"imageUrl": "string",
"isAllowed": "boolean",
"createdAt": "string",
"updatedAt": "string",
"isEmailVerified": "boolean",
"isPhoneVerified": "boolean",
"allowedBy": {
  "id": "string",
  "firstname": "string",
  "lastname": "string",
  "email": "string",
  "role": "string"
},
"allowedAt": "string",
"disallowReason": "string",
"disallowedBy": {
  "id": "string",
  "firstname": "string",
  "lastname": "string",
  "email": "string",
  "role": "string"
},
"disallowedAt": "string"
}
```

### Business Users (Additional Fields)

```
{
  // ... all user fields above
  "businessInfo": {
    "crNumber": "string",
    "vatNumber": "string",
    "companyName": "string",
    "companyType": "string",
    "address": {
      "city": "string",
      "district": "string",
      "streetName": "string"
    },
    "approvalStatus": "string",
    "approvedBy": {
      "id": "string",
      "firstname": "string",
      "lastname": "string",

```

```
    "email": "string",
    "role": "string"
  },
  "approvedAt": "string",
  "rejectedBy": {
    "id": "string",
    "firstname": "string",
    "lastname": "string",
    "email": "string",
    "role": "string"
  },
  "rejectedAt": "string",
  "rejectionReason": "string"
}
```

### Admin/Employee Users (Additional Fields)

```
{
  // ... all user fields above
  "accessPages": {
    "dashboard": "boolean",
    "analytics": "boolean",
    "users": "boolean",
    "products": "boolean",
    "orders": "boolean",
    "reviews": "boolean",
    "wishlists": "boolean",
    "categories": "boolean",
    "addresses": "boolean"
  }
}
```

### Error Response

```
{
  "status": "error",
  "message": "Error description",
  "error": {
    "code": "ERROR_CODE",
    "details": "Additional error details"
  }
}
```

### Status Codes

- **200:** OK - Request successful

- **201**: Created - Resource created successfully
- **400**: Bad Request - Invalid request data
- **401**: Unauthorized - Authentication required
- **403**: Forbidden - Insufficient permissions
- **404**: Not Found - Resource not found
- **500**: Internal Server Error - Server error

## Rate Limiting

API endpoints are subject to rate limiting to ensure fair usage and system stability. Rate limits may vary by endpoint and user role.

## Support

For API support and questions, please contact the development team or refer to the internal documentation.